

ABSTRACT

The present invention provides a finely-divided powder spray apparatus having a spray nozzle pipe for discharging finely-divided powders from the tip together with a gas stream, which is disposed at a prescribed distance from the member to be sprayed and inclined in a prescribed direction to the member; and a moving-speed control means which controls the moving-speed of the tip of the spray nozzle pipe in accordance with the quadratic function, which indicates the reduction rate of the density of the deposited finely-divided powders based on the distance between a peak point of the density of the finely-divided powders deposited on the member to be sprayed in a trial spray and a spray point at which an extension from the spray nozzle pipe intersects with the member to be sprayed.

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